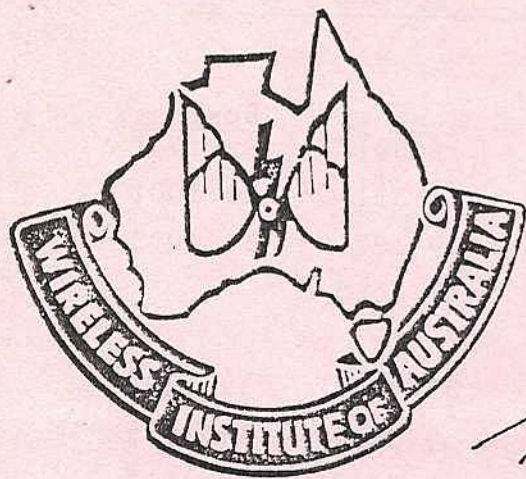
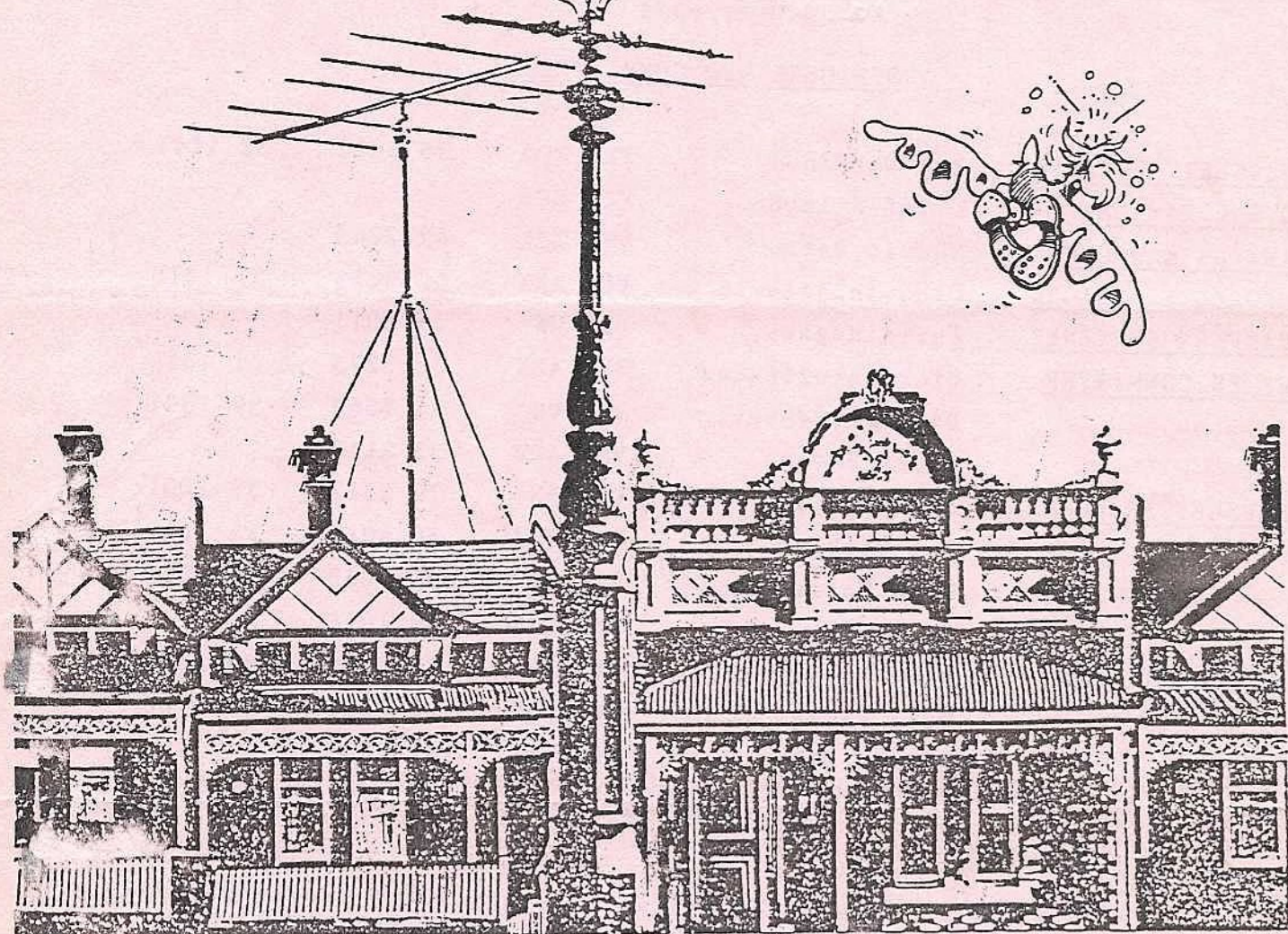




B·A·R·G NEWS

OCTOBER 1987.



© Monthly Newsletter of the
Ballarat Amateur Radio Group

REGISTERED BY AUSTRALIA POST, PUBLICATION NO. V3H3397

BALLARAT AMATEUR RADIO GROUP INCORPORATED. OFFICERS 1987-88.

EXECUTIVE COMMITTEE.

			<u>Home</u>	<u>Business</u>
<u>PRESIDENT</u>	Ron Watkins.	VK3 XOA	35 6017	32 1447
<u>IMM.PAST PRESIDENT</u>	Bob Terrill.	VK3 BNC	39 5317	39 1001
<u>VICE PRESIDENT</u>	John Hazledine.	VK3 CFH	39 1971	39 1035
<u>SECRETARY</u>	Jim Wright.	VK3 CFB	32 7563	
<u>ASST.SECRETARY</u>				
<u>TREASURER</u>	Harry Hekkema.	VK3 KGL	35 7563	39 1001
<u>PUBLICITY OFFICER</u>	Gordon Cornell.	VK3 PUW	39 2427	39 1135
<u>EDUCATION OFFICER</u>	Ian McDonald.	VK3 AXH	41 3717	31 1317
<u>NET CO-ORDINATOR</u>	Reg Carter.	VK3 CAZ	41 3566	
<u>TECHNICAL OFFICER</u>	Dick Forrester.	VK3 VU	35 7663	39 1001
<u>MEMBERS REPRESENTATIVE</u>	Neil Davidson.	VK3 KQQ	35 9612	

10 NOV 1988 #####

OFFICERS AND COMMITTEES.

<u>NEWSLETTER EDITOR</u>	Ron Watkins.	VK3 XOA	35 6017	32 1447
<u>Q.S.L.MANAGER</u>	Cliff Bilston.	VK3 CCB		
<u>AWARDS MANAGER</u>	Maurie Batt.	VK3 XEX	42 2245	
<u>PROPERTY OFFICER</u>	Dick Antoziewicz.	VK3 AEX	32 3273	31 1818
<u>HAMFEST CONVENER</u>	Kevin Hughes.	VK3 WN	35 5011	
<u>WICEN COMMITTEE</u>	Dick Antoziewicz.	VK3 AEX	32 3273	31 1818
	Dick Forrester.	VK3 VU	35 7663	39 1001
	Geoff Smith.	VK3 ADB	33 2112	
<u>NEWSLETTER COMM.</u>	Bob Terrill.	VK3 BNC	39 5317	39 1001
	Ron Watkins.	VK3 XOA	35 6017	32 1447
	Dick Forrester.	VK3 VU	35 7663	39 1001
	John Brown.	VK3 CJB	39 1014.	
<u>TECHNICAL COMM.</u>	Dick Forrester.	VK3 VU	35 7663	39 1001
	Phil Seddon.	VK3 AQM	31 5220	31 3166
	Maurie Batt.	VK3 XEX	42 2245	

#####

B.A.R.G.meets on the LAST FRIDAY of every month except December at the Ballarat Education Centre,Hopetoun St,Ballarat.7.30pm.

Committee meetings are held at the Education Centre on the Wednesday two weeks prior to the Club meeting at 7.30pm. Members of the Executive Committee are expected to attend and any Club Member with business for discussion is welcome.

All correspondence should be addressed to -
The Secretary,B.A.R.G.Inc,P.O.Box 216E,Ballarat East.3350.

Applications for Awards to-Maurie Batt,R.S.D.Rokewood Junction.3351.

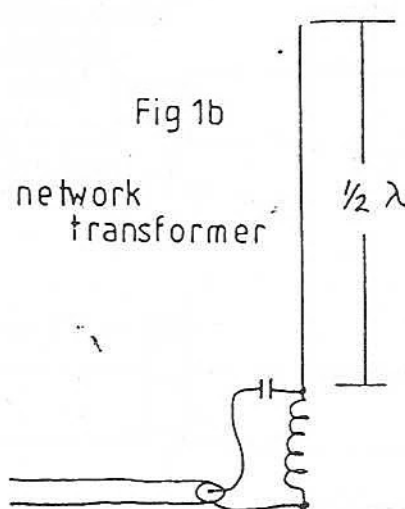
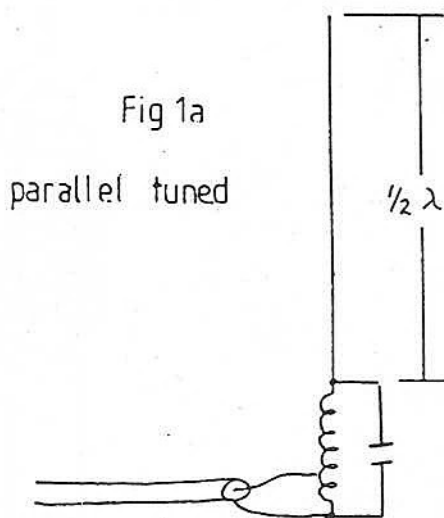


NEED A 2 M ANTENNA ???

A SIMPLE, LOW COST PORTABLE 2M ANTENNA.

Here is an antenna with features which make it attractive for portable operation or installations where a ground plane is not available or not desirable.

Electrically, the antenna is an endfed halfwave dipole matched to 50Ω coaxial feedline by a network transformer instead of the more common parallel tuned circuit (like the popular Ringo). Figs 1a & 1b compare the two matching methods.



This article refers specifically to an antenna constructed from 1.6mm dia. wire (or rod) for the 2m band and although other dipole diameters and other bands are possible no such work has been undertaken by the writer at this time.

The author's version is constructed as a unit from a single length of 1.6mm dia. tinned copper wire & after adjustment for lowest VSWR the antenna was housed in a fibreglass fishing rod blank. The wire could be enamelled & the housing could be PVC conduit.

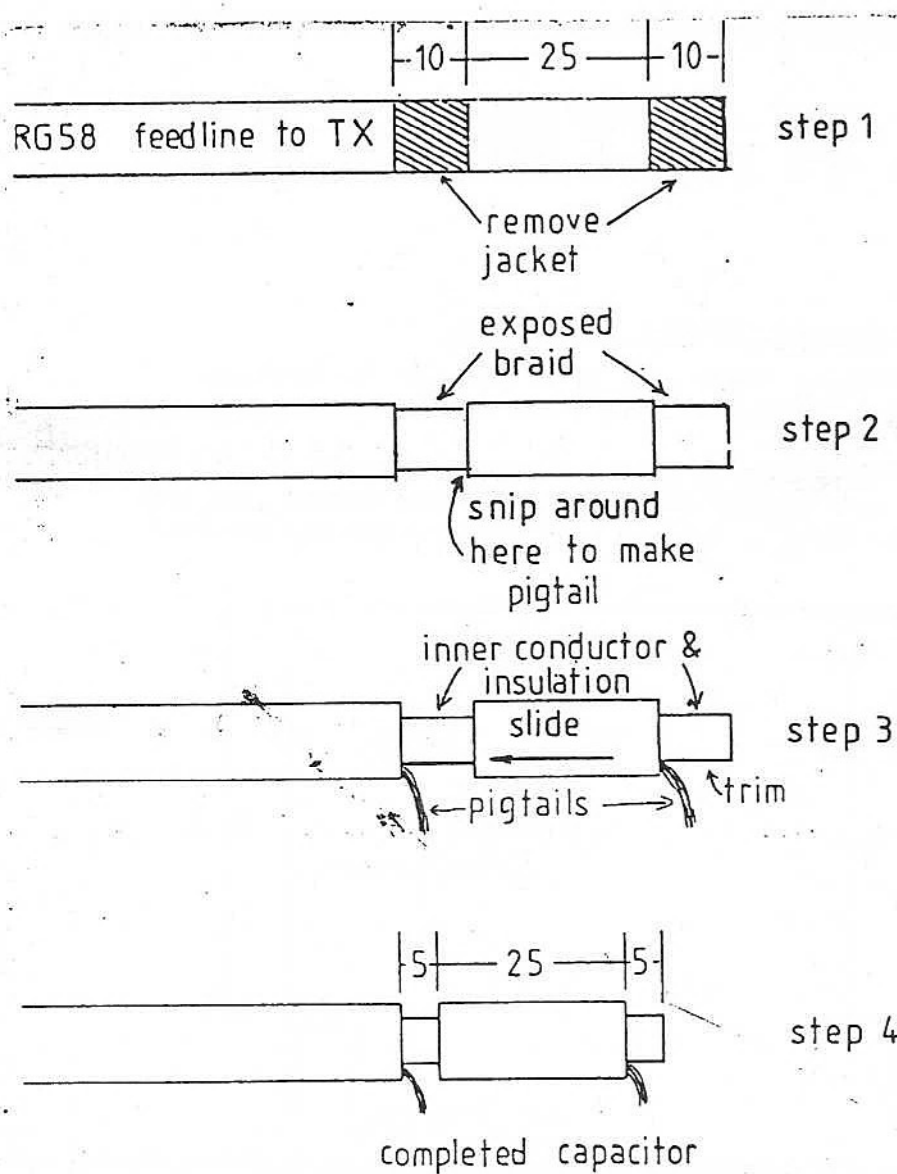
Providing the capacitor & coil are accurately constructed very little adjustment should be necessary to achieve a low (<1.5:1) VSWR, any adjustments being taken care of by squeezing up or stretching the turns of the coil. The imperial dimension given in Fig 3 occurred because of the twist drill used as the former on which the coil was wound.

Wind 9 close wound turns of 1.6mm dia. wire on a 5/16" dia. former, bend up the ends & then stretch the coil to achieve the dimension shown in Fig 3. Capacitor details are shown in Fig 2.

Although the feedline as shown is RG58 & it is mounted up inside the coil (Fig 4) there is no reason why RG213 (or RG8) cannot be used with the "capacitor" parallel with the coil on the outside. It is important however to note that the length of the capacitor only holds true for solid polythene coax. Foam coax has lower capacitance per foot than solid polythene & a new capacitor dimension will have to be found if foam coax is used.

This antenna was the culmination of a search for a lightweight, slim, ground independent antenna for WICEN & it has been used on two exercises so far to my complete satisfaction.

de Ray VK2TV



dimensions in m.m.

Fig. 2

coil 9+ 5/16" dia.*

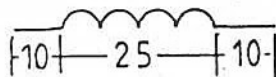


Fig 3

*see text

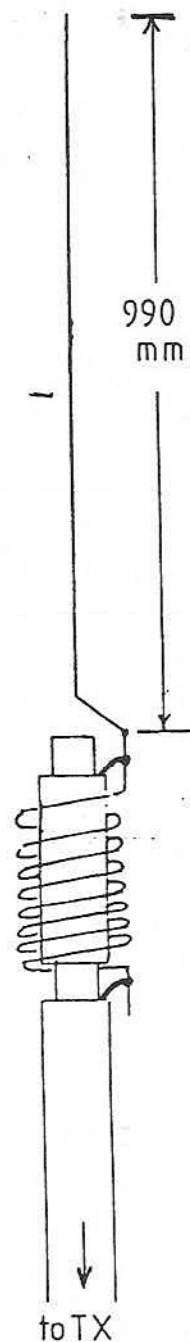


Fig 4

NOTE. Some dimensions exaggerated for clarity.

PACKET RADIO REPORT by ANDY VK3DTO

[MBL320]

PBBS...Asianet...Napier...New Zealand.

Hello ANDY, new 263 - 466, active 78.

ZL2AMD BBS (B,D,H,I,J,K,L,N,R,S,T,U,V,W,X,?) >

r 329

Msg # 329 Type: B Stat: To: ALL @NAP From: Date: 870823/2335

Subject: WIAW Schedule

Bulletin ID: WIAW

Path: VK6AGC!VK4BBS!VK2OP!AH6GJ!KH6GPI!WH6C

April 5, 1987 -- October 25, 1987 MTWThFSSn = Days of Week Dy = Daily

EDT	Slow Code Practice	MWF: 9 AM, 7 PM; TThSSn: 4 PM, 10 PM
	Fast Code Practice	MWF: 4 PM, 10 PM; TTh: 9 AM; TThSSn: 7 PM
	CW Bulletins	Dy: 5 PM, 8 PM, 11 PM; MTWThF: 10 AM
	TelePrinter Bulletins	Dy: 6 PM, 9 PM, 12 AM; MTWThF: 11 AM
	Voice Bulletins	Dy: 9:30 PM, 12:30 AM
UTC	Slow Code Practice	MWF: 0200, 1300, 2300; TThSSn: 2000; Sn: 0200
	Fast Code Practice	MWF: 2000; TTh: 0200, 1300; TThSSn: 2300; S: 0200
	CW Bulletins	Dy: 0000, 0300, 2100; MTWThF: 1400
	TelePrinter Bulletins	Dy: 0100, 0400, 2200; MTWThF: 1500
	Voice Bulletins	Dy: 0130, 0430

Code Practice, Qualifying Run and CW bulletin frequencies:

1.818, 3.58, 7.08, 14.07, 21.08, 28.08, 50.08, 147.555 MHz

TelePrinter bulletin frequencies:

3.625, 7.095, 14.095, 21.095, 28.095, 147.555 MHz

Voice bulletin frequencies:

1.89, 3.99, 7.29, 14.29, 21.39, 28.59, 50.19, 147.555 MHz

Slow code Practice is at 5, 7 1/2, 10, 13, and 15 WPM.

Fast code Practice is at 35, 30, 25, 20, 15, 13, and 10 WPM.

On Monday, Wednesday, and Friday, 1300 through 2100 UTC (9 AM through 5 PM EDT), transmissions are beamed to Europe on 14, 21 and 28 MHz; on Wednesday at 2200 UTC (6 PM EDT) they are beamed south.

On Fridays, UTC, a DX bulletin replaces the regular bulletin transmissions.

On Tuesdays and Saturdays at 2230 UTC (6:30 PM EDT), Keplerian Elements for active amateur satellites will be sent on 45.45-baud Baudot on the regular telePrinter frequencies.

WIAW CW and voice bulletins are sent on OSCAR 10, Mode B, subject to reactivation of the transponder. Look for CW on 145.84 MHz and SSB on 145.962 MHz.

TelePrinter bulletins are 45.45-baud Baudot, 110-baud ASCII and 100-baud AMTOR, FEC mode. Baudot, ASCII and AMTOR (in that order) are sent during all 1500 UTC (11 AM EDT) transmissions, and 2200 UTC (6 PM EDT) on TWThFSSn. During other transmission times, AMTOR is sent only as time permits.

CW bulletins are sent at 18 WPM.

In a communications emergency, monitor WIAW for special bulletins as follows: voice on the hour, telePrinter at 15 minutes past the hour, and CW on the half hour.

-Tom Brown KA2UGQ

.oOo.oOo.oOo.oOo.oOo.oOo.oOo.oOo.oOo.oOo.oOo.oOo.oOo.oOo.oOo.

UUUCP: ..!ihmP4!mtune!ky2d-2!ka2u99

or: ..!ihmP4!bellcore!tom@ka99.bellcore.com

Packet: KA2UGQ @ WA2SNA-1

2m FM: 145.750 MHz (local simplex)

ICBM: 40 40' 41" N, 74 25' 03" W

If it's stuck, force it. If it breaks, it needed replacing anyhow.

o o

C

ZL2AMD BBS (B,D,H,I,J,K,L,N,R,S,T,U,V,W,X,?) >
 r 326
 Ms9 # 326 Type: B Stat: To: ALL @NAP From: N2FOZ Date: 870823/2321
 Subject: Fax Freqs
 Bulletin ID: N2FOZ233
 Path: VK6AGC!VK4BBS!AH6GJ!WB6ASR!W7LHO!WB9TYT
 HF FACSIMILE FREQUENCIES
 R: 870705/1932Z @: KA2UGQ-1 BERKELEY HEIGHTS, NJ #: FILE 0: WB2IBO M: WA2SNA-1
 HERE ARE SOME FAX FREQ'S.
 EAST COAST
 9157.5, 17447.5 KHZ MOBILE, ALABAMA
 4271, 9890, 13510 KHZ HALIFAX, CANADA
 4793.5, 10185, 12201,
 14671.5 KHZ WASHINGTON, D. C.
 8502, 12750 KHZ BOSTON, MASSACHUSETTS
 9389.5, 11035 KHZ BRENTWOOD, NEW YORK
 3357, 8080, 10865,
 16410 KHZ NORFOLK, VIRGINIA
 WEST COAST
 8459 KHZ ALASKA
 4802.5, 7770, 9440, 11090,
 13627.5, 13862.5 KHZ ... HAWAII
 8646, 17410.5 KHZ SAN DIEGO
 4346, 8682, 12730,
 17151.2 KHZ SAN FRANCISCO
 OTHER FAX SIGNALS
 17670 KHZ AP NEWS SERVICE
 18435 KHZ R NEWS SERVICE
 HAPPY FAXING*** Connect request: W1XI
 !
 HARRY, WB2IBO
 [EDITED BY KA2UGQ]
 UPLOADED BY N2FOZ @ WB2HBZ-4, WA2SNA-1 VHF, WB9TYT 14.107 HF*** Connect request:

KY00G

ZL2AMD BBS (B,D,H,I,J,K,L,N,R,S,T,U,V,W,X,?) >
 r 298

Ms9 # 298 Type: F Stat: To: ALL @NAP From: VK6AGC Date: 870819/2320
 Subject: IBM PC Packet Software
 Bulletin ID: VK6AGC77
 Path: VK4BBS!VK6AGC

PC Packet Radio Programs

[Gateway, the ARRL Packet Radio newsletter Vol. 3, #22]

Kalt and Associates have introduced three new Packet radio Programs for the IBM PC, AT, and "true" compatibles.

MESSAGE-PAC is a Program that allows the user to enter messages using a displayed template that is similar to the standard ARRL Radiogram format. When a message entry is completed, the Program Produces an ASCII disk file that is ready for transmission by any communications Program that

can handle ASCII file transfers. The Program automatically counts the number of words in the message to provide a check number without operator intervention. Also, the Program automatically enters the current time and date into a message. The contents of all of the message fields (except

enters the current time and date into a message. The contents of all of the message fields (except the actual text of the message) can be stored for later retrieval. (MESSAGE-PAC requires 256 Kbytes of RAM.)

DIGIPAC 1 is a Packet radio communication Program. The Program features a variety of display

7
Recall screen display. User definable VSP-UP
macro file menus and alarm windows. ASCII, binary,
and XMODEM file transfer functions are provided.
(DIGIPAC I requires 512 Kbytes of RAM.)
For additional information concerning these
programs, contact Kalt and Associates, Suite #108,
2440 E Tudor Rd, Anchorage, AK 99507.

ZL2AMD BBS (B,D,H,I,J,K,L,N,R,S,T,U,V,W,X,?) >

*** Done.

d digicom.pkt

-----COMM 64 AND PACKET-----
FROM COLIN FRANCIS ZL3FH

WE HAVE JUST RECEIVED A PROGRAM FROM PUBLIC DOMAIN IN GERMANY FOR THE
COMMODORE 64 OR 128.. THERE ARE THREE VERSIONS OF THIS EXCEPTIONALLY
GOOD PROGRAM..

1. DIGICOM>64 1.2

THIS PROGRAM IS THE FIRST ONE WRITTEN AND USES THE CASSETTE PORT WHICH MAKES
SENSE WHEN U CONSIDER IT... IT LEAVES THE USER PORT FREE IF U ARE USING A NON
COMMODORE PRINTER FROM THE USER PORT.

2. DIGICOM>64 1.4

THIS PROGRAM USES THE USER PORT OF THE C 64 SO CAN BE STORED ON CASSETTE FOR
NON DISK DRIVE OWNERS..

3 DIGICOM>64 1.5

THIS IS THE LATEST PROG AND HAS MANY FEATURES ADDED TO IT THE OTHERS HAVE
NOT..IT ACCESSES THE CASSETTE PORT ..

BASICALLY THE PROGRAM SUPPORTS ALL COMMODORE PERIPHERALS AND IS UNDOUBTEDLY
ONE OF THE BEST PROGRAMS I HAVE SEEN FOR THE COMMODORE..

SOME OF THE FEATURES ARE....

SUPPORTS PRINTER AND DISK DRIVES.

BOOTS UP IN 80 COL FORMAT (CHANGEABLE TO 40 COL)

TIME AND DATE STAMPING

YOU HAVE ACCESS TO FOUR SCREENS . THE FIRST IS THE QSO SCREEN. THERE ARE TWO
SCREENS THAT MONITOR ALL THE TRAFFIC ON THE CHANNEL AND ONE OTHER SCREEN THAT
LISTS ALL USERS ON CHANNEL AND IF THEY ARE DIGIPEATING WHO THROUGH.

ALL TNC COMMANDS ARE THERE AND U CAN HAVE UP TO NINE DIFFERENT SETS OF
PARAMETERS THAT U CAN CAL UP AT WILL. IE HF OR VHF OR UHF ETC.

COLORS CAN BE CHANGED TO SUIT YOUR MONITOR OR TV SET.

SUPPORTS FULL 1541 DOS . U CAN SCRATCH FILES, WRITE FILES, FORMAT DISKS ETC.

BEACON FACILITIES ARE THERE TOO.

SPLIT SCREEN WITH MOVEABLE DIVISION..

UPPER OR LOWER CASE ON/OFF

PASSALL COMMAND WHICH PASSES ALL PACKETS CORRECT OR NOT IF REQUIRED.

HELP SCREEN

.....
A COPI OF THIS PROG AND INSTRUCTIONS WILL BE SENT TO VK4BBS FOR FREE
DISTRIBUTION APART FROM PHOTOCOPYING COST AND POSTAGE.

.....
WE ALSO HAVE A PROGRAM CALLED "HEX/UNHEX" THAT WE WILL SEND OVER TOO. THIS
PROGRAMS ALLOWS U TO HEX A BASIC PROGRAM OR MACHINE LANGUAGE PROG AND TX IT
TO ANOTHER PACKETEER. HE SIMPLY UNHEXES IT AND LOADS AND RUNS IT.. WORKS
GREAT.

.....
ALSO PROVIDED IS A PRINTED CIRCUIT BOARD LAYOUT OF A DIGICOM>64 MODEM
TOGETHER WITH A CIRCUIT DIAGRAM AND PARTS LAYOUT. IT USES A AM7910 CHIP AND
WORKS BOTH VHF AND HF 1200 /300 BAUD.. IN FACT THIS FILE IS BEING UPLOADED
WITH THE SAME SYSTEM.. THE AM7910 HAS INTERNAL FILTERING AND SEEMS TO WORK
PRETTY WELL ON HF AND ABSOLUTELY BRILLIANTLY ON VHF..

.....
AS ALL THE INSTRUCTIONS SHEETS WERE IN GERMAN WE HAVE PRODUCED A SUMMARY OF
THE COMMANDS IN ENGLISH WHICH SHOULD ALLOW YOU TO GET IT UP AND RUNNING..
SOMETIME WHEN I HAVE A FEW MONTHS AND A CURRENT GERMAN ENGLISH DICTIONARY I
WILL NO DOUBT TRANSLATE THE REST .. SOME HOPE BUT THERE IS ENOUGH TRANSLATED
TO OPERATE THE PROG FINE..

SUBMITTED BY COLIN FRANCIS ZL3FH
BOX 21017
CHRISTCHURCH
NEW ZEALAND.

(THANKS TO GRAHAM ZL3CN FOR BUILDING DIGICOM AM7918 MODEM)
ANY ENQUIRIES ON THE ABOVE SEND A SELF ADDRESSED LETTER HAD ENOUGH POSTAGE TO
GET IT BACK TO YOU.

-----CHEERS DE ZL3FH-----
ZL2AMD BBS (B,D,H,I,J,K,L,N,R,S,T,U,V,W,X,?) >

8

HAMVENTION '87.

SUNDAY 1ST NOVEMBER

SEBASTOPOL FOOTBALL GROUND

TRADE DISPLAYS

WORKING EXHIBITS

COMPETITIONS

+ MUCH MORE

LUNCH + REFRESHMENTS AVAILABLE

SEE YA THERE!

One crucial difference between the brain and a computer is that machines are essentially hard wired, set up at the time of manufacture; whereas the brain is continually modifying the pathways and connections between its neurones, so allowing adaptive behaviour and learning. A conference report in "Nature" (1987;328:572-3) explains some of the current concepts, such as that the behaviour of a pyramidal cell cannot be predicted simply from its anatomical connections but depends on its past history of activity and the relative strength of its momentary inputs.

WIRELESS INSTITUTE OF AUSTRALIA

CENTRAL QUEENSLAND BRANCH



Founded 1910

Ref.:

Please Telephone:

P.O. BOX 496
ROCKHAMPTON
Q'LAND. 4700

30/8/87

The Editor/Club Secretary

Amateur Radio Interested Magazines/Clubs

Dear Sir,

RE: LETTER FROM VK4ZAR

We are pleased to advise the Central Queensland Branch of the Wireless Institute of Australia has Passed a motion completely supporting the attached letter from Noel.

Therefore the majority of the members of W.I.A. Central Queensland Branch completely support the concept of the Morse content of examinations being dropped. We also support the individuals right to use such methods of communication as is permitted by the individual licence.

Yours faithfully,

R.G.A. (Robb) MOODIE
PRESIDENT

R.G.A. (Robb) MOODIE

VK4TKA

K.G. (Ken) ENGLAND
SECRETARY

K.G. (Ken) ENGLAND

VK4JPE

(THIS LETTER AND THE ONE OVERLEAF ARE PUBLISHED FOR THE INFORMATION OF MEMBERS, AND TO PROMOTE GENERAL DISCUSSION. ED.)

01/09/87

The Secretary,
Ballarat Amateur Radio Group
P O Box 216E,
Ballarat Vic 3350.

Regarding the present controversy concerning operation on the 2 meter band by Novice operators.

I think it is about time that a very important subject was raised. Why does Amateur Radio, probably the most highly advanced technical Hobby require its adherents to be qualified in an antiquated medium to gain entry to full capability of our hobby. I speak of the Morse requirement for H.F. operation. It is time for the abolition of the C.W. test. I can already hear the screams from some of those of us who have had to pass the C.W. test, but who generally never "POUND BRASS". Whilst I believe that if one wants to use C.W. then that is their choice and I would be the first to defend that right, but why make aspiring Full Call Amateurs learn something that they will probably never use again and will forget in a very short time.

It will be said that we cannot drop the code test because of the I.T.U. agreements Australia has signed !What Poppycock!! We have already broken so many of the International requirements (TV channel O,5A etc). No! If we want our hobby to continue we must "populate or perish". ALL OF OUR FREQUENCIES ARE BEING HUNGRILY LOOKED AT BY OTHER USERS.

My proposal is for only 2 types of licences.

1/ Full call with the same technical and regulatory requirements as at present.

2/ Novice (for the want of a more suitable name) with the same technical and regulatory requirements as at present with the use of the Full 2 meter band for voice only (no exotic modes) and with existing power levels.

Neither licence would require a morse test.

What can we do to achieve this quickly?. Join the W.I.A. as by unity we can approach the Department of Transport and Communications to have them change the rules. Make sure that we tell the W.I.A. that we want them to set this up with DOTAC forthwith. If you belong to a Radio Club make sure that a Motion is passed at the next meeting to write to DOTAC in a courteous manner and ask them to carry out our wishes. DO NOT WRITE TO DOTAC AS AN AMATEUR (YES I KNOW IT IS YOUR RIGHT) they will get enough letters from the KNOCKERS. Many of the present Full Call licencees will back this proposal. Write to all and any Publications A.R.-A.R.A- ELECTRONICS AUSTRALIA- ELECTRONICS TODAY-AUSTRALAIN ELECTRONICS MONTHLY-and any others, we must keep the SQUEAKY WHEEL moving. Contact your Federal Member and also get your club President to contact the Federal Member.

NOEL A ROBERTS VK4ZAR
P.O.Box 49
YEPPON 4703
Ph(079)391801



The Wireless Institute of Australia

(VICTORIAN BRANCH)

412 BRUNSWICK STREET, FITZROY, 3065

Telephone: 417 3535

VK3BML

8 Sept '87.

Dear

Secretary.

As you probably have heard from the W.I.A. Sunday broadcasts, the W.I.A. has decided to start a QSL collection.

Many QSLs like old photographs of the past, have been lost forever. However, a start can be made now. The W.I.A. collection is at present being arranged and several hundred QSLs have already been mounted on display boards. These can be borrowed by W.I.A. members for school radio club displays, radio exhibitions, meetings etc.

We are still desperately short of QSLs of all kinds (especially pre-War II QSLs, rare DX and QSLs of particular artistic appeal). As one who has had a great interest in DX-ing, you may wish to contribute some QSLs to the W.I.A. collection, and perhaps in the future, save your unwanted QSLs. It is only through radio operators & Clubs like yourself that we can make the W.I.A. (Vic. Div.) collection a really first-class one.

QSLs can be left at the W.I.A. rooms at 412 Brunswick Street, Fitzroy (Monday - Thursday before 3.00 p.m.) when next you pick up your QSLs or attend a meeting. If this is inconvenient for you could you contact the curator of the collection, Ken Matchett, VK3TL (Wandin) 059 643721 and arrangements will be made by the W.I.A. to have the QSLs picked up from your home - whether your QTH is near the city or in the country. You do not need to sort your QSLs - any QSLs will be greatly appreciated.

You could also be of assistance to the W.I.A. if you would spread the word amongst your radio friends, especially those who are no longer active but who may have saved their QSLs. Like most of us, some may not have looked at their QSL cards for many years and have no further use for them.

All donations of QSL cards are acknowledged on the W.I.A. Sunday broadcasts and may also appear in editions of "A.R."

Please see what you can do in relation to this matter. We hope that people like yourself will be in a position to help us.

Best 73,

Barry Wilton

BARRY WILTON, VK3XV,
Hon. President, W.I.A. (Vic. Div.)

(FURTHER DETAILS AVAILABLE
AT THE HAMVENTION. Eo.)



WICEN NEWS

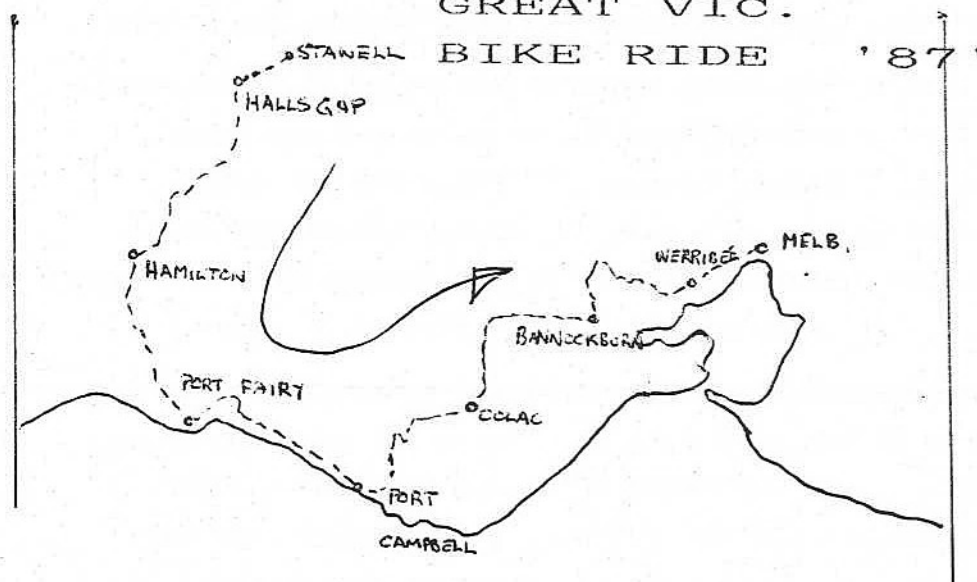
FOR DISPLAN REGIONS 1, 15, 16.

REGIONAL CONTACTS.....

VK3ADB Geoff Smith
VK3AEX Dick Antosiewicz
VK3VU Dick Forrester



GREAT VIC. BIKE RIDE '87'



The bike ride this year will of course need volunteers from this area to boost the number of amateurs req'd to maintain a good communications net for the safe running of the ride.

THE DATES..Dec 5th.... Dec 13th

FREQUENCIES USED..146.000 (ch 50)

147.300 (port. rept. + 600)

3.600 (80 meters)

Again ...petrol costs will be refunded

Again...full maps, log sheets will be supplied

AT THE OCTOBER MEETING i will gather a list of amateurs interested in helping out for 1 day, 2 days, etc.

SO be committed and give us your support, this sort of event shows a large sector of the public at large what we do and provides us with better operating skills for when it really hits the fan.

MORE AT OCTOBER MEETING. DICK AEX

Ballarat Amateur Radio Group

VK3BML

MEMBERSHIP FEES 1987-88

MEMBERSHIP FEES BECOME DUE AT THE ANNUAL GENERAL MEETING. PLEASE ASSIST THE CLUB BY PAYING PROMPTLY TO THE TREASURER HARRY HEKKEMA VK3KGL AT CLUB MEETINGS OR BY MAIL TO P.O. BOX 216E, BALLARAT EAST. THE SCALE OF FEES IS AS FOLLOWS:-

FULL MEMBER	\$10.00
FAMILY	\$15.00
STUDENT/PENSIONER	\$ 5.00
LIFE MEMBER	NIL
ASSOCIATE	\$ 7.50

NOTE: ASSOCIATE MEMBERSHIP IS A NEWSLETTER SUBSCRIPTION ONLY.

TO ENABLE ACCURATE RECORDS TO BE KEPT PLEASE COMPLETE THE FOLLOWING INFORMATION AND RETURN IT WITH YOUR SUBSCRIPTION.

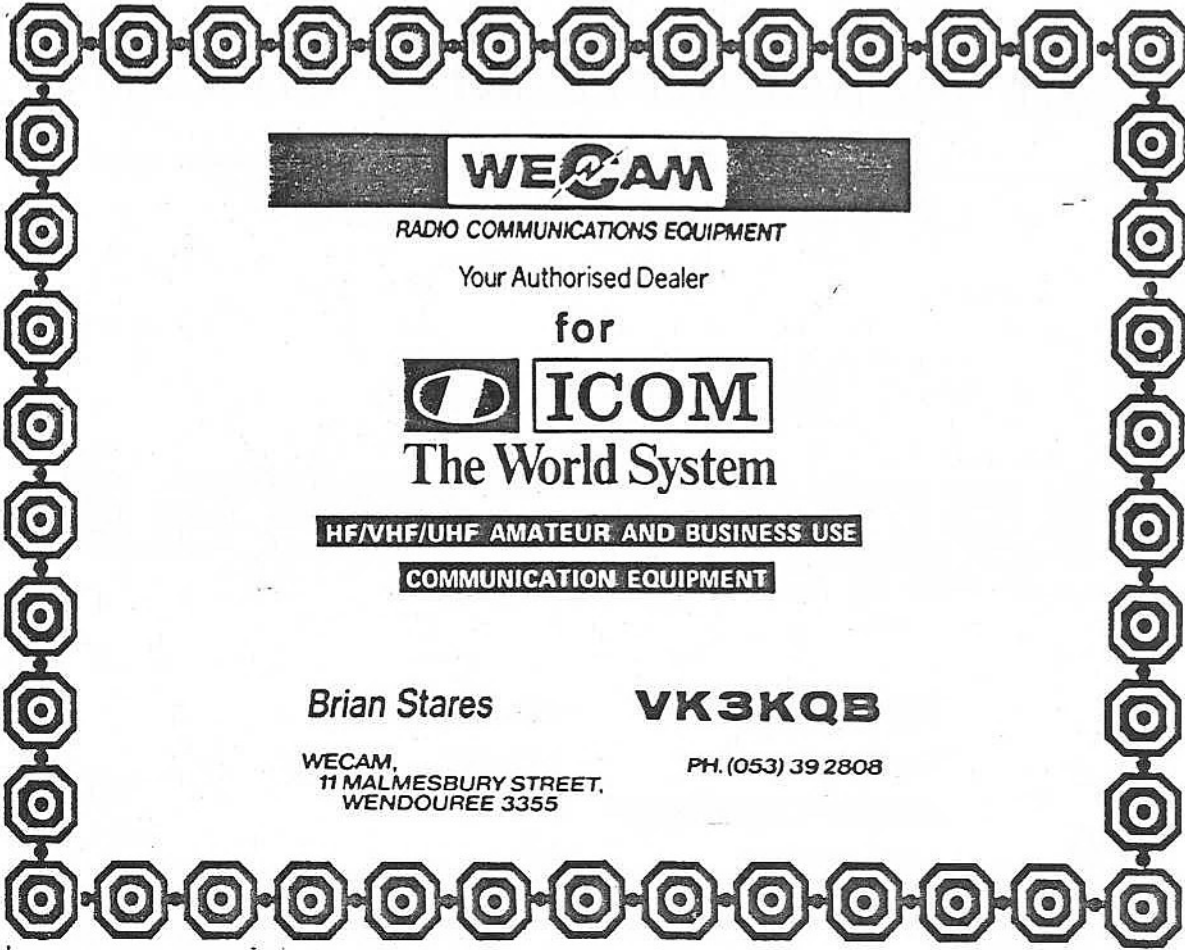
NAME _____ CALL SIGN _____

ADDRESS _____

MEMBERSHIP DESIRED FULL/FAMILY/STUDENT-PENSIONER/ASSOCIATE/LIFE

AMOUNT REMITTED \$ _____ DATE _____

FEES NOW OVER DUE



WECAM
 RADIO COMMUNICATIONS EQUIPMENT
 Your Authorised Dealer
 for
 **ICOM**
 The World System
HF/VHF/UHF AMATEUR AND BUSINESS USE
COMMUNICATION EQUIPMENT

Brian Stares **VK3KQB**
 WECAM,
 11 MALMESBURY STREET,
 WENDOUREE 3355 PH. (053) 39 2808



Venture Video

614 SKIPTON ST., SEBASTOPOL

Ph. (053) 35 6933